

STORMNET

Scientific Training for Operations and Research in a Meteorological NETwork

proposal for a Marie Curie Research Training Network

"a European training network for further developing and using local short-range high-resolution numerical weather prediction (NWP) models and their applications"

13 partners, 10 associated partners, 3 consortia

Partner	Country	Official coordinator	Associated partner	Contact point	ESR	Responsibility of the team	Consortium	Other RTN
ZAMG	Austria	Y. Wang	University of Wien		2	?	ALADIN	ALATNET
IRM-KMI	Belgium	G. Demarée	University of Ghent	E. De Jonghe	2	?	ALADIN	ALATNET
DHMZ	Croatia	A. Bajic	Andrija Mohorovicic Geophysical Institute	B. Grisogono	1	surface	ALADIN	
CHMU	Czech Rep.	R. Brozkova	-	-	2	dynamics	ALADIN	ALATNET
FMI	Finland	J. Damski	-	-	2	link with NetFAM	HIRLAM	NetFAM
MF/CNRM	France	D. Giard	CNRS/Laboratoire d'Aérologie	P. Mascart	5	administration	ALADIN	ALATNET NetFAM
DWD	Germany	J. Steppeler	University of Bonn		2	numerics	COSMO	
OMSZ	Hungary	A. Horanyi	University Eötvös Lorand		2	predictability	ALADIN	ALATNET
KNMI	The Netherlands	G. Cats	University of Leiden		2	system	HIRLAM	
SHMU	Slovakia	M. Derkova	Comenius University Bratislava	M. Gera	2	?	ALADIN	ALATNET
INM	Spain	J.A. Garcia-Moya	-	-	3	?	HIRLAM	
SMHI	Sweden	N. Gustafsson	Dep. of Meteorology, Stockholm University	E. Kallen	2	data assimilation	HIRLAM	NetFAM
MeteoSwiss	Switzerland	P. Steiner	ETH Zurich		2	verification	COSMO	

* : ready to organize training courses locally with the help of a thematic coordinator

4 years, 29 ESR, 6-8 summer schools

	Call 1				Call 2				Call 3										
	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	T14	T15	T16	total	host	type
S1			1	1	1	1	1	1	1	1	1	1	1	1			12	ch	FT
S2			1	1	1	1	1	1	1	1	1	1	1	1			12	ch	FT
S3						1	1	1	1	1	1	1	1	1	1	1	10	at	FT
S4			1	1	1	1	1	1	1	1	1	1	1				10	at	FT
S5			1	1	1			1	1			1	1	1			8	cz	ST
S6				1	1				1	1	1			1	1		8	cz	ST
S7			1	1			1	1			1	1			1	1	8	hu	ST
S8			1	1	1			1	1			1	1	1			8	hu	ST
S9			1	1	1	1	1	1	1	1	1	1	1				10	de	FT
S10						1	1	1	1	1	1	1	1	1	1	1	10	de	FT
S11			1	1	1			1	1	1			1	1			8	fr	ST
S12							1	1	1	1	1	1	1	1	1	1	10	fr	FT
S13					1	1	1			1	1	1			1	1	8	fr	ST
S14			1	1	1			1	1			1	1	1	1		8	fr	ST
S15			1	1	1	1	1	1	1	1	1	1	1	1			12	fr	FT
S16			1	1	1	1	1	1	1	1	1	1	1	1			12	be	FT
S17			1	1	1	1	1	1	1	1	1	1	1	1			12	be	FT
S18			1	1	1	1	1	1	1	1	1	1	1				10	sk	FT
S19				1	1	1				1	1			1	1	1	8	sk	ST
S20			1	1	1	1	1	1	1								8	se	FT
S21						1	1	1	1	1	1	1	1	1			8	se	FT
S22					1	1	1	1	1	1	1	1	1	1	1	1	12	fi	FT
S23									1	1	1	1	1	1	1	1	8	fi	FT
S24			1	1	1	1	1	1	1	1							8	nl	FT
S25						1	1	1	1	1	1	1	1	1			8	nl	FT
S26			1	1	1	1	1	1	1								8	es	FT
S27			1	1	1	1	1	1	1	1							8	es	FT
S28									1	1	1	1	1	1	1	1	8	es	FT
S29			1	1	1	1	1	1	1	1							8	hr	FT
Stays		1			1				1				1			1	5		ST
Total	0	3	51	57	66	54	66	69	81	78	60	60	54	57	33	30	8,38		
	1	111			2	255			3	279			4	174				819	
																		804	

21 "full-time" ESRs

21 "shared-time" ESRs

17x24m

6x30m

6x36m

5x3m

Table of Contents for the Outline Proposal

INTRODUCTION.....	3
1. A short presentation of the STORMNET project.....	3
2. Short-range numerical weather prediction in Europe.....	3
RESEARCH PROGRAMME.....	4
1. Relevance of the research objectives.....	4
2. Deterministic forecasting at very high resolution.....	5
a) "Dynamics".....	5
b) "Coupling".....	5
c) "Physical parametrizations".....	5
d) "Time-stepping".....	6
3. Improved use of local observations for model initialization.....	6
a) Use of new observations, improved use of conventional observations.....	6
b) Three-dimensional analysis of atmospheric fields.....	7
c) Four-dimensional analysis and related issues.....	7
d) "Surface analysis".....	8
4. Evaluation of the reliability of forecasts.....	8
a) Short-range predictability: the use of ensemble forecasting and other techniques.....	8
b) Verification of model forecasts.....	9
c) Coupling with other environmental applications.....	9
d) Validation.....	9
5. Complementary aspects.....	9
TRAINING PROGRAMME.....	10
1. Needs.....	10
2. Experience.....	10
3. Training steps.....	11
a) Local training.....	11
b) Training by research work.....	11
c) Training for research and operations.....	12
d) Training within the research world.....	12
4. Organizational aspects.....	13
a. Sharing responsibilities.....	13
b. Transfer of knowledge.....	13